GAUGE VALVE

User's Guide





Read and use the information contained within these documents.

This User's Guide contains information important to the proper installation, maintenance and safe use of the GAUGE VALVE store in an easily accessable location.

Warning & Caution Signs



This symbol reminds the user to take caution due to the potential for serious injury or death.



This symbol reminds the user to take caution due to the potential for damage to the valve if used in such a manner.

Prohibited & Mandatory Action Signs



Prohibited: When operating the valve, this symbol indicates an action that should not be taken.



Mandatory action: When operating the valve, this symbol indicates mandatory actions that must be adhered to.

General Information for Transportation, Unpacking and Storage





- -This valve is not designed to handle impacts of any kind. Avoid throwing or dropping the valve.
- -Avoid scratching the valve with any sharp object.
- -Do not over-stack cardboard shipping boxes. Excessively stacked packages may collapse.
- -Avoid contact with any coal tar creosote, insecticides, vermicides or paint.
- (These chemicals may cause damage to the valve.)
- -Keep the piping in the corrugated cardboard boxes, avoid direct sunlight, and store it indoors (at Room Temperature). Also avoid storing it in a place which may become very hot.
- (Corrugated cardboard packages become weaker as they become wet with water or other liquid. Keep Dry during storage and handling.)
- -After unpacking the products, check that they are defect-free and meet the specifications.
- -When transporting a valve, do not carry it by the handle.

Inspection Items



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☐ Check for flaw, crack, or deformation on the valve.

☐ Check for the smoothness of handle operation.

- ☐ Check for leaks to the outside or inside.
- $\hfill\square$ Check that all fasteners are tight.
- ☐ Check for tightness of gland nut and glass pipe.

GAUGE VALVE

ASAHI AV
Serial No. :UA-013E

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General Operating Instructions





-Do not change or replace valve parts under line pressure.



-Using a positive-pressure gas with our plastic piping may pose a dangerous condition due to the repellent force particular to compressible fluids even when the gas is under similar pressures used for liquids.

Therefore, be sure to take the necessary safety precautions such as covering the piping with protective material. For inquiries, please contact us. For conducting a leak test on newly installed piping, be sure to check for leaks under water pressure. If absolutely necessary to use a gas in testing, please consult your nearest service station beforehand.

- -Be sure to conduct a safety check on all hand and power tools to be used before beginning work.
- -Wear protective gloves and safety goggles as fluid remain in the valve even if the pipeline is empty. (You may be injured.)





- -Do not step on or apply excessive weight on valve. (It can be damaged.)
- -Do not use the valve in conditions where the fluid may have crystallized. (The valve will not operate properly.)
- -Do not use the valve to fluid containing slurry. (The valve will not operate properly.)
- -When installing a pipe support by means of a U-band or something similar, take care not to over-tighten. (Excessive force may damage the pipe.)
- -The installed valve must never be opened or closed when foreign matter such as sand is present in the pipeline.



- -Keep the valve away from excessive heat or fire. (It can be damaged, or destroyed.)
- -Always operate the valve within the pressure vs. temperature range. (The valve can be damaged or deformed by operating beyond the allowable range.)
- -Allow sufficient space for maintenance and inspection.
- -Select a valve material that is compatible with the media. For chemical resistance information, refer to "CHEMICAL RESISTANCE ON ASAHI AV VALVE". (Some chemicals may damage incompatible valve materials.)
- -The installed valve must be check for no leakage with safe fluid.(Ex. Water)
- -Keep the valve out of direct sunlight, water and dust. Use cover to shield the valve. (The valve will not operate properly.)
- -Give appropriate measures for safety considering the expected trouble enough.
- -Perform periodic maintenance.
- (Leakage may develop due to temperature changes or periods of prolonged storage, rest, or operation.)
- -When installing pipes and valves, ensure that they are not subjected to tension, compression, bending, impact, or other excessive stress.
- -When operating the handle, be sure to do so with your hand. (Using a tool may damage the handle.)

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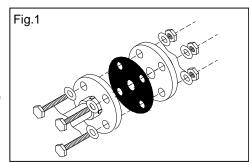
For the Owner and the Installing Contractor Serial No.: UA-013E

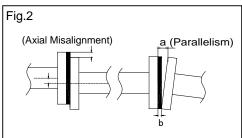
Installation Procedure

The connection method of the GAUGE VALVE, there is Flanged End: 20mm(3/4inch), 25mm(1inch). As for details, refer to the User's manual separately.



- igwedge -Take care not to over-tighten the Union Nut. (The valve can be damaged.)
- The parallelism and axial misalignment of the flange surface should be under the values shown in the following table to prevent damage to the valve. (A failure to observe them can cause destruction due to stress application to the pipe)(Fig.2)
 - -Use flat faced flanges for connection to AV Valves.
 - -Ensure that the mating flanges are of the same standards.
 - -Be sure to use sealing gaskets (AV Gasket), bolts, nuts, and washers and tighten them to specified torques.
 - -When connecting a ASAHI AV Valve to metal piping, take care not to let the pipe stress on the ASAHI AV Valve.
 - -When installing pipes and valves, ensure that they are not subjected to tension, compression, bending, impact, or other excessive stress.





Flanged End Fig.3 1. Cleaning: Confirm the flange face area is clean and free of dirt or foreign materials.

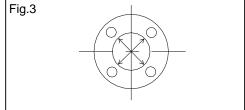
25 (1")

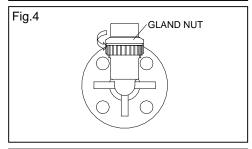
26 (1.04")

2. Set the AV gasket between the flanges. Insert washers and bolts from the pipe side, insert washers and nuts from the valve side, then temporarily tighten them by hand. Tighten the bolts and nuts gradually with a torque wrench to the specified torque level in a diagonal manner. (Fig. 3)

Glass Pipe

- 1. Loosen the gland nut by hand. (Fig. 4)
- 2. Remove the gland nut, gland and O-ring from the body.
- 3. Set the gland nut, gland and O-ring through the glass pipe. (Fig. 5)
- 4. Insert the glass pipe into the body.
- 5. Tighten the gland nut with hand. (Fig. 6)

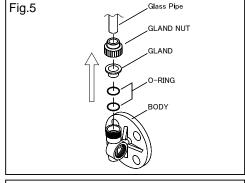


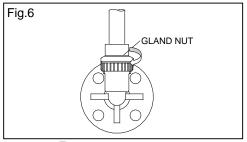


< Axial Misalignment and Parallelism of Flanged face >			Unit: mm (inch)	
Nom. Size	Axial Misalignment	Para	Parallelism (a-b)	
20, 25 (3/4"-1")	1.0 (0.04")	0.5 (0.02")		
< Recommended Torque Value >		Unit: N·m {kgf·cm} [lb·inch]		
Nom. Size mm(inch)	20 (3/4")	25 (1″)		
PTFE, PVDF coated	17.5 {179} [155]	20	.0 {204} [177]	
Rubber	8.0 {82} [71]	20	.0 {204} [177]	
< Recommended Glass Pipe Ouder Size >		Unit: mm (inch)		

 $20 (^{3}/_{4}")$

18 (0.72")





Nom. Size

mm(inch) Glass Pipe

Ouder Size

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For the Owner and the Installing Contractor

Handling of Residual and Waste Materials



Make sure to consult a waste treatment dealer for recommendations on the proper disposal of plastic valves. (Poisonous gas is generated when the valve is burned improperly.)

Product Warranty

Be sure to read the following description of our product warranty.

- Always observe the specifications of and the precautions and instructions on using our product.
- We always strive to improve product quality and reliability, but cannot guarantee perfection. Therefore, should you intend to use this product with any equipment or machinery that may pose the risk of serious or even fatal injury, or property damage, ensure an appropriate safety design or take other measures with sufficient consideration given to possible problems. We shall assume no responsibility for any inconvenience stemming from any action on your part without our written consent in the form of specifications or other documented approval.
- The related technical documents, operation manuals, and other documentation prescribe precautions on selecting, constructing, installing, operating, maintaining, and servicing our products. For details, consult with our nearest distributor or agent.
- Our product warranty extends for one and a half years after the product is shipped from our factory or one year after the product is installed, whichever comes first. Any product abnormality that occurs during the warranty period or which is reported to us will be investigated immediately to identify its cause. Should our product be deemed defective, we shall assume the responsibility to repair or replace it free of charge.
- Any repair or replacement needed after the warranty period ends shall be charged to the customer.
- The warranty does not cover the following cases:
- (1) Using our product under any condition not covered by our defined scope of warranty.
- (2) Failure to observe our defined precautions or instructions regarding the construction, installation, handling, maintenance, or servicing of our product.
- (3) Any inconvenience caused by any product other than ours.
- (4) Remodeling or otherwise modifying our product by anyone other than us.
- (5) Using any part of our product for anything other than the intended use of the product.
- (6) Any abnormality that occurs due to a natural disaster, accident, or other incident not stemming from something inside our product.

Inquiries

As for details, refer to the User's manual. **GAUGE VALVE** : No. H-V016E

ASAHI ORGANIC CHEMICALS INDUSTRY CO.,LTD.

http:www.asahi-yukizai.co.jp/en

Valves and Piping System Administration

Overseas Department: (World Trade Center Bldg. 20F) 4-1, Hamamatsu-cho-2- Chome, Minatoku, Tokyo, Japan. Tel: (81) 3-3578-6015 Fax: (81) 3-3578-6025 Bangkok Representative Office: 50 GMM Grammy Place Tower, 15th Floor, Sukhumvit 21 Road (Asoke), North Klongtoey, Wattana, Bangkok 10110, Thailand. Europe Representative Office: Kaiser-Friedrich-Promenade 61 D-61348 Bad Homburg v. d. H. Germany. Shanghai Branch Office: RM. 1305. Orient International Plaza Part(C) No.85 Lou Shan Guan Road, Shanghai China 200336 ASAHI /AMERICA Inc.: 35 Green Street P.O.Box 653, Malden, Massachusetts 02148 U.S.A.

Tel: (66) 2-665-9938 Fax: (66) 2-665-9939 Tel: (49) 6172-9175-0 Fax: (49) 6172-9175-25 Tel: (21) 6278-7862 Fax: (21) 6278-7892 Tel: (1) 781-321-5409 Fax: (1) 781-321-4421